

In the specification:

Please amend the specification by amending the paragraph on page 3, lines 21-24, as follows:

Light sent into the sensor through the lead fiber is reflected from the two partially mirrored surfaces and returned to an analyzer for demodulation. The spacing or gap between the two ferrules is adjusted to provide the optimal light signal to the analyzer. As is well known in the art, the optimal light signal is such that that the light returned to the instrument by all reflecting elements is of equal intensity so as to maximize the interferometric signal In the preferred embodiment, the gap is adjusted mechanically between 25-200 microns.